

mg in 20 ml water) for 50 min. Controls were exposed to 20 ml water alone for 50 minutes. The animals were sacrificed either 30 min or 24 hrs after exposure, and their lungs were fixed in situ by inserting a catheter into the trachea and instilling 10 percent neutral-buffered formalin at a pressure of 20 cm H₂O. After 2 hours, both the lungs and the heart were removed from the chest as a single block and additionally fixed in 10 percent formalin for several days. The lungs were then dissected free of extraparenchymal structures, sectioned randomly, and processed for histology. Unstained slide sections were treated with goat serum for 30 min, washed with PBS, then incubated with goat anti-rat lung elastin antiserum for 1 hr and washed with PBS. After treatment with rabbit serum for 30 min, a secondary, fluorescein-labeled rabbit anti-goat IgG antibody was applied for 1 hr. The slide sections were then washed with PBS and examined with a fluorescence microscope. Additional sections were stained with hematoxylin and eosin to determine possible inflammatory changes in the lungs."

Claims:

1) P. 10, lines 2-3: With regard to claim 1, change "A method of treating the lung with lysozyme that comprises administering this protein intratracheally" to: "A method of treating the lung of a patient with lysozyme that comprises intratracheally administering said lysozyme to the lung of said patient."

2) P. 10, Lines 6-7: Delete "such as eggs" from claim 3, so that it now reads:

3) P. 10, Lines 8-9: Delete "such as fermentation" from claim 4, so that it now reads:

"A method of claim 1, wherein the lysozyme is produced by a bioprocess."

4) P. 10, Line 10-11: With regard to claim 5, change "A method of treating a respiratory disorder that comprises intratracheally administering to a mammal an effective amount of lysozyme" to:

"A method of treating a respiratory disorder that comprises intratracheally administering to the lung of a mammal an effective amount of lysozyme."

5) P. 10, Lines 23-24: delete "such as DMSO, an alcohol, or water" from claim 15, so that it now reads:

"A method of claim 5, wherein the lysozyme is administered with a carrier."

Please note that the General Remarks submitted on 2/21/2002 remain unchanged and have not been included in this submission.